

**TANDY COMPUTER**

CAT. NO. 08-2001

# Whiz Kids

ALEC  
and SHANNA  
STARRING IN

**A DEADLY  
CHOICE!**

of **HOTLINE for VICTIMS  
SUBSTANCE ABUSE**



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TANDY COMPUTER

# Whizkids®



ALEC  
and  
SHANNA

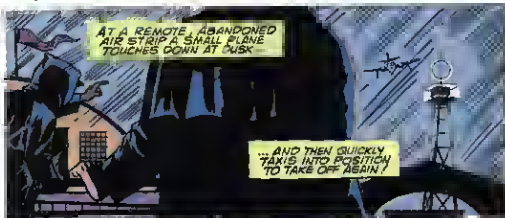
STARRING IN...

## A DEADLY CHOICE!

1977 © TANDY  
ILL. © GENE GIL

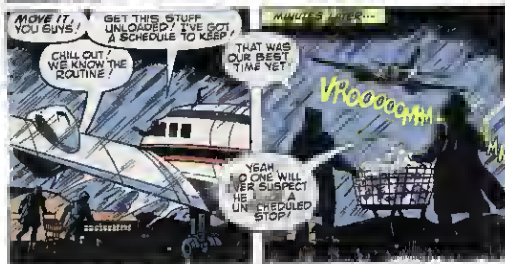
CONCEPT: FREDRIC  
GARY GILBERTSON

SCRIPT: FRED BRUNSON &  
MICHAEL FELLOWS  
INK AND  
COLOR: GILBERTSON  
EDITOR: VICTOR COMPTON



AT A REMOTE, ABANDONED  
AIR STRIP A SMALL PLANE  
TOUCHES DOWN AT DUSK

...AND THEN QUICKLY  
TAXIS INTO POSITION  
TO TAKE OFF AGAIN!



MOVE IT,  
YOU GUYS!

GET THIS STUFF  
UNLOADED! I'VE GOT  
A SCHEDULE TO KEEP!

CHILL OUT!  
WE KNOW THE  
ROUTINE!

THAT WAS  
OUR BEST  
TIME YET!

YEAH,  
NO ONE WILL  
EVER SUSPECT  
HE'S ON A  
UN-  
SCHEDULED  
STOP!

VROOOOOOM!

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COM ON! LET'S GET THIS STUFF OUT OF SIGHT!

RIGHT!

INSIDE THE DOORING SECRET DOOR OPENS TO REVEAL A CONCEALED LABORATORY.

RING! RING!

OKAY! TAKE IT IN!

HEY BOSS! THE LATEST SHIPMENT JUST ARRIVED!

GOOD! BRING IT DOWN SO WE CAN CUT IT AND GET IT READY FOR THE STREET!

LEVEL 2

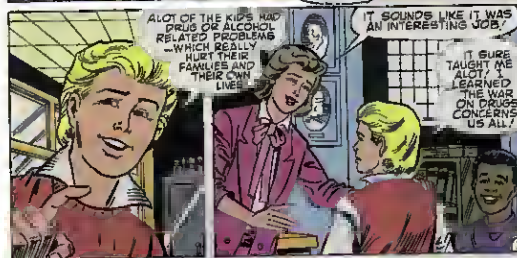
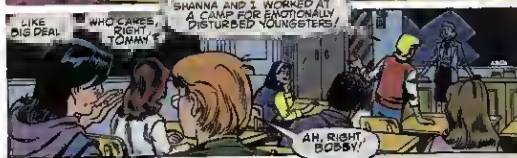
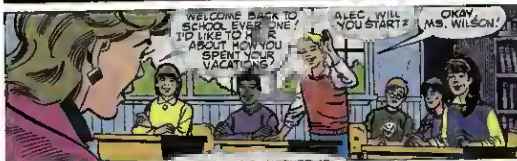
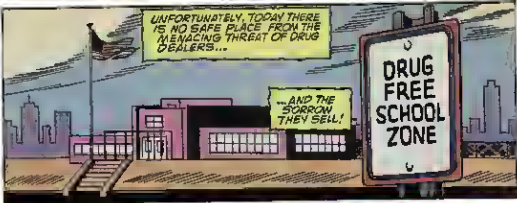
AFTER ALL, WE DON'T WANT TO KEEP OUR EAGER CUSTOMERS WAITING DO WE?

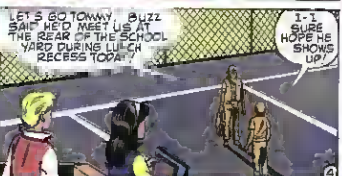
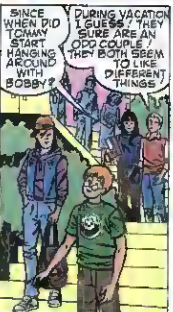
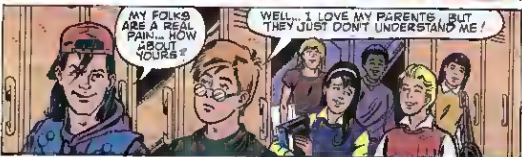
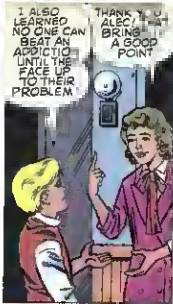
ILLEGAL DRUG OPERATIONS TRADE UNSUSPECTING CLIENTS MISERY FOR MONEY! WITHOUT THE HELP OF ALERT CITIZENS, UNDERGROUND DRUG FACILITIES LIKE THESE MOST OFTEN ESCAPE DETECTION!

A FEW MORE SHIPMENTS LIKE THIS AND I'LL BE ON EASY STREET FOR LIFE!

HA! HA!  
HA! YEAH!

RIGHT, MR. CLAYTON! THOSE DUMMIES ARE WILLING TO PAY... AND PAY BIG FOR WHAT WE HAVE TO OFFER!





LOOK ALEC THERE'S A STRANGER HANGING  
AROUND THE SCHOOL YARD!

YO! BOBBY!  
TOMMY!  
OVER HERE,  
DUDES

HI, BUZZ!  
GREAT!

YOU  
BROUGHT  
OUR NEW  
SUPPLY!

OF COURSE!  
AND THERE'S  
PLENTY MORE  
WHERE THAT  
CAME FROM  
BUT WE  
NEED MORE  
CUSTOMERS  
UNDERSTAND

FINDING NEW CUSTOMERS  
ISN'T EASY, BUZZ!

KIDS ARE  
SMARTER AND  
MORE CAUTIOUS  
NOW!

I WANT CUSTOMERS  
NOT EXCUSES! GIVE THE  
STUFF AWAY IF YOU HAVE  
TO! ONCE THE KIDS ARE  
HOOKED... THEY'LL PAY  
AND PAY PLENTY!

NOW BEAT  
IT! I'LL BE IN  
TOUCH AGAIN  
SOON! REMEMBER!  
MORE CUSTOMERS...  
OR ELSE!

S-SURE  
BUZZ! WE  
UNDERSTAND

W-WHERE ARE WE GOING TO  
FIND NEW CUSTOMERS, BOBBY?

RELAX, TOMMY! IF WE CAN  
HOOK SOME OF THE MORE POPULAR  
KIDS LIKE ALEC AND SHANNA  
THE OTHERS WILL FOLLOW  
THEIR EXAMPLE!







LATER AFTER SCHOOL

THAT  
HAPPENED  
MRS WILSON

I CERTAINLY DON'T  
SEE SUSPICIOUS AND THE TRUTH  
IS... I'M WORRIED ABOUT  
TOMMY AND BOBBY  
TOO!



NEITHER SEEM  
TO HAVE MUCH  
INTEREST IN  
SCHOOL ACTIVITIES  
AND THEY HAVE  
MORE MONEY  
THAN THEY  
SHOULD

IS THERE  
ANYTHING  
WE CAN  
DO TO  
HELP?



COMING FORWARD IS A BIG  
HELP AND DESPITE WHAT  
BOBBY SAYS, IT'S NOT  
SQUEALING! HOWEVER WITH-  
OUT ANY PROOF OUR HANDS  
ARE TIED FOR NOW!



BUT WHAT ABOUT THAT RANGER?  
SHOULD WE TELL THE  
PRINCIPAL?

I'LL TELL MR  
KLINE ABOUT  
THE MAN IN  
THE HAT  
AND THE ENTIRE  
STAFF ARE CON-  
CERNED ABOUT  
OUR RISING  
PROBLEM!



IN FACT, WE HAVE  
A BIG FACULTY  
MEETING TODAY TO  
SCRIBE SOME  
A B TO  
COMBAT THE  
PROBLEM

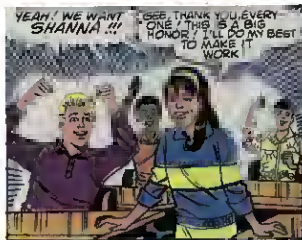
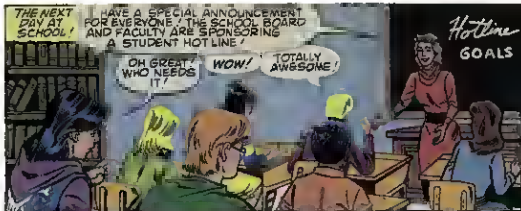
WE'VE GOT TO BE  
GOING TOO. THANKS  
FOR LISTENING,  
MRS. WILSON.  
BYE!



TO BIG  
TIM! LOOK  
HERE!

I HAVE AN  
OFFER YOU  
CAN'T  
REFUSE!



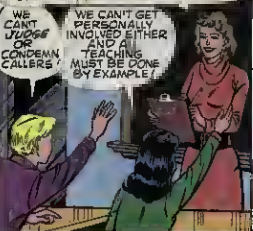


AFTER THE COMMITTEE'S SELECTED GUIDELINES ARE DISSEMINATED!

OKAY, ALL CALLS MUST BE KEPT CONFIDENTIAL! NOW WHAT ELSE?

WE CAN'T JUDGE OR CONDEMN CALLERS!

WE CAN'T GET PERSONALLY INVOLVED EITHER AND A TEACHING MUST BE DONE BY EXAMPLE!



GOOD! VERY GOOD! AND HOW ABOUT GOALS?

FIRST WE HAVE TO MAKE STUDENTS AWARE OF THE DANGERS OF DRUGS AND ALCOHOL!



RIGHT! AND WE HAVE TO SHOW VICTIMS THAT SOMEONE REALLY DOES CARE!

LET'S TRY TO KEEP ONE STUDENT OFF DRUGS!

AND MOST IMPORTANT OF ALL... SAY NO TO DRUGS!



ALL THIS ANTI-DRUG TALK MAKES ME NERVOUS, BOBBY!

YEAH! IT COULD BE BAD FOR BUSINESS, WE BETTER LET BUZZ KNOW ABOUT THIS!



CONGRATULATIONS AGAIN, SHANNA! WE'LL BE ABLE TO START OUR DRUG HOTLINE RIGHT AWAY!

SOMETHING HAS TO BE DONE TO PUT A STOP TO SHANNA AND HER HOTLINE!



THAT NIGHT ALEC AND SHANNA TELL THEIR PARENTS ABOUT THE HOTLINE.

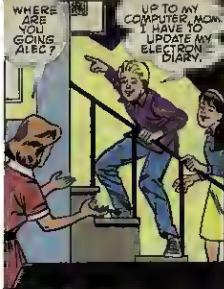
IT MEANS EXTRA RESPONSIBILITY FOR BOTH OF YOU, BUT I'M SURE YOU CAN HANDLE IT!

YES, WE'RE VERY PROUD OF YOU AND YOUR DECISION TO HELP OTHERS!



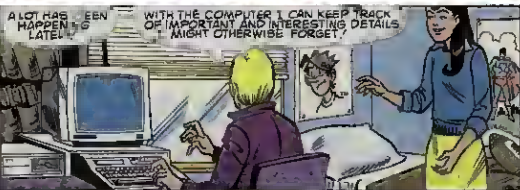
WHERE ARE YOU GOING ALEC?

UP TO MY COMPUTER, MOM. I HAVE TO UPDATE MY ELECTRONIC DIARY.



A LOT HAS BEEN HAPPENING LATELY.

WITH THE COMPUTER I CAN KEEP TRACK OF IMPORTANT AND INTERESTING DETAILS I MIGHT OTHERWISE FORGET!



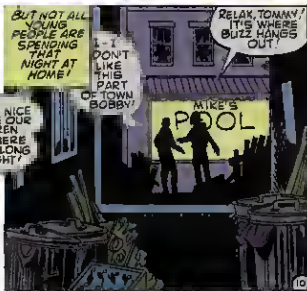
ALEC AND SHANNA SURE ENJOY THAT COMPUTER!

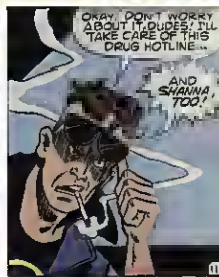
BUT NOT ALL YOUNG PEOPLE ARE SPENDING THAT NIGHT AT HOME!

I-I DON'T LIKE THIS PART OF TOWN BOBBY!

RELAX, TOMMY! IT'S WHERE BUZZ HANGS OUT!

YES, IT'S NICE TO HAVE OUR CHILDREN HOME WHERE THEY BELONG AT NIGHT!





A FEW DAYS LATER!

WOW!  
THAT MOVIE  
WAS AWESOME!  
THANKS FOR  
THE TREAT,  
ALEC!

MY PLEASURE,  
SHANNA / YOU  
DESERVED IT  
FOR DOING SUCH  
A GOOD JOB  
WITH THE  
HOTLINE!

STRAND  
MOVIE

AIR CONDITIONING

SHANNA! LOOK  
OUT!!!

EEEEEEK!

SCREECH!

WOW! THE DRIVER OF  
THAT CAR SURE IS IN  
A HURRY!

HE DIDN'T  
EVEN SEE US!

KEEP DOWN!  
THERE'S  
SOMETHING  
FUNNY GOING  
ON BACK  
THERE!

AS SHANNA / DALEC WATCH  
FROM HIGH / A DIABOLICAL  
DEAL TAKES PLACE

IT'S ABOUT  
TIME YOU  
SHOWED UP  
FOR OUR  
REGULAR  
DROP!

HERE'S  
CLAYTON'S  
MONEY! NOW  
HAND OVER  
THE STUFF! I  
DON'T HAVE  
ALL NIGHT!

I DON'T  
LIKE THE  
LOOKS OF  
THIS!



THAT DRIVER  
LOOKS FAMIL-  
BUT I CAN  
REMEMBER  
WHERE I'VE  
SEEN HIM  
BEFORE!

KNOW!  
HE'S THE  
STRANGER  
WHO WAS  
HANGING  
AROUND OUR  
SCHOOL!



YOU'RE RIGHT, SHANNA!  
QUICK! MAKE A NOTE OF  
HIS LICENSE PLATE!



C'MON! LET'S  
GET HOME!

I WANT TO FEED THIS  
ADDITIONAL INFORMAT-  
ION ABOUT THAT  
STRANGER INTO  
MY COMPUTER!



DON'T TELL ME YOU STORED  
INFORMATION ABOUT THAT  
GUY IN THE COMPUTER!

I SURE  
DID!



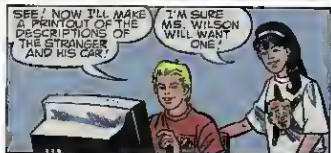
I THOUGHT  
IT MIGHT  
COME IN  
HANDY!

I PUT IN A  
COMPLETE  
DISCRPTION!  
C'MON!  
I'LL SHOW YOU!



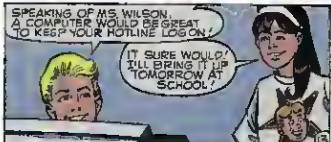
SEE! NOW I'LL MAKE  
A PRINTOUT OF THE  
DESCRIPTIONS OF  
THE STRANGER  
AND HIS CAR!

I'M SURE  
MS. WILSON  
WILL WANT  
ONE!



SPEAKING OF MS. WILSON,  
A COMPUTER WOULD BE GREAT  
TO KEEP YOUR HOTLINE LOG ON!

IT SURE WOULD!  
I'LL BRING IT UP  
TOMORROW AT  
SCHOOL!





THE NEXT  
DAY AT  
SCHOOL!

THANKS FOR THE PRINTOUT  
AND THE SUGGESTION  
ABOUT THE HOTLINE LOG,  
BUT I'M AFRAID I HAVE  
SO BAD NEWS!



SHANNA, PLEASE FOLLOW ME  
INTO MR. KLINE'S OFFICE!  
HE WANTS TO BREAK THE  
NEWS TO YOU PERSONALLY!



I WONDER  
WHY THE  
PRINCIPAL  
WANTS TO  
SEE YOU?

SHANNA, I'VE HAD A COMPLAINT THAT YOU  
SENT A HOTLINE CALLER TO A PLACE WHERE  
HE COULD BUY DRUGS!



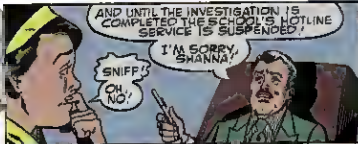
WHAT?  
THAT'S NOT  
TRUE!

PRINCIPAL'S  
OFFICE

WHO  
MADE  
THAT  
CHARGE,  
MR.  
KLINE?  
  
AN ANONYMOUS  
CALLER GAVE  
ME THE  
INFORMATION.  
PERSONALLY,  
I DON'T  
BELIEVE IT!  
BUT THERE  
HAS TO BE AN  
INVESTIGATION.



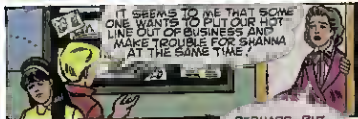
AND UNTIL THE INVESTIGATION IS  
COMPLETED THE SCHOOL'S HOTLINE  
SERVICE IS SUSPENDED!



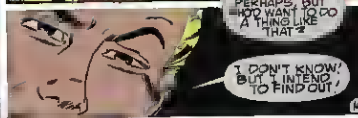
I'M SORRY,  
SHANNA!

SNIFF!  
OH NO!

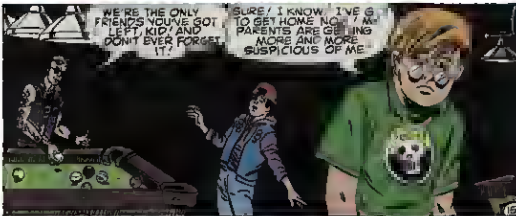
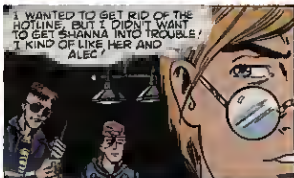
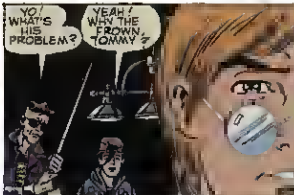
IT SEEMS TO ME THAT SOME  
ONE WANTS TO PUT OUR HOT-  
LINE OUT OF BUSINESS AND  
MAKE TROUBLE FOR SHANNA  
AT THE SAME TIME!

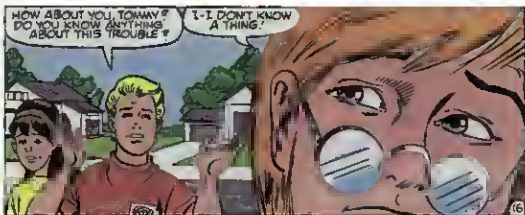
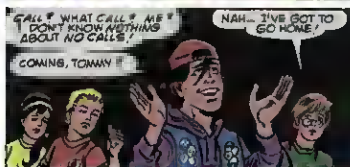


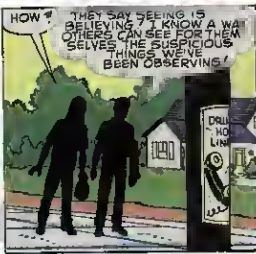
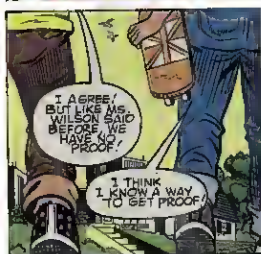
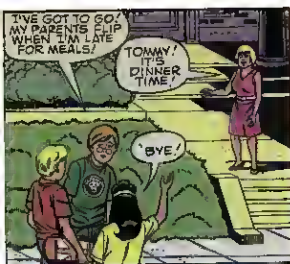
PERHAPS, BUT  
I'D WANT TO DO  
A THING LIKE  
THAT?



I DON'T KNOW!  
BUT I INTEND  
TO FIND OUT!







THAT NIGHT IN ALE'S ROOM!

WITH THIS TANDY CAMCORDER WE CAN DOCUMENT WHAT WE SEE!

GOOD IDEA! BUT WE'LL HAVE TO BE REAL CAREFUL!

COMBATting DRUG DEALERS SHOULD BE LEFT TO THE POLICE!

I AGREE! WE'RE NOT GOING TO TAKE ANY RISKS. WE'RE JUST GOING TO PROVIDE SOME PROOF OF OUR STORY!

IN THAT CASE, I'LL HELP PRODUCE THIS HOME VIDEO!

WE'LL START BY TRYING TO GET A SHOT OF THAT CAR IN THE ALLEY NEAR THE THEATER!

RIGHT! AND THEN WHAT?

AFTER THAT WE'LL VIDEO TAPE THE STRANGER WHO KEEPS HANGING AROUND THE SCHOOL!

IT ALL SOUNDS SAFE AND FOOLPROOF! MAYBE WE'LL GET LUCKY AND END UP WITH SOME EVIDENCE THE POLICE CAN USE!

AT LEAST A VIDEO TAPE AND THE COMPUTER PRINT-OUT I MADE WILL GIVE THE AUTHORITIES SOMETHING TO INVESTIGATE!

TOMORROW, WE BEGIN TAPING!

RIGHT!

DAYS LATER NEAR  
THE THEATER!

I DON'T THINK  
YOUR PLAN IS  
GOING TO WORK  
ALEC!

WE'VE BEEN  
HERE EVERY NIGHT  
AND WE HAVEN'  
SEEN A TRACE OF  
THAT CAR!

JUST  
STAY  
OUT OF  
SIGHT,  
SHANNA!

LOOK!  
THERE  
IT IS!

IT'S THE SAME CAR  
ALL RIGHT! START  
RECORDING!

**VAROOOOM**

IT'S ABOUT  
TIME, BUZZ!

M MR CLAYTON!  
WHAT ARE YOU DOING  
AT THE DROP ZONE?  
ISN'T IT DANGEROUS?

IT'S  
SAFE  
ENOUGH!

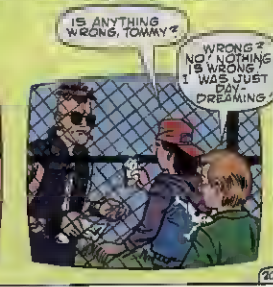
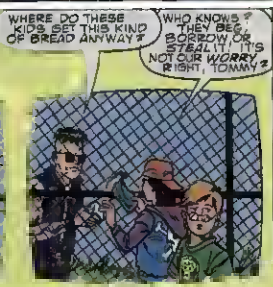
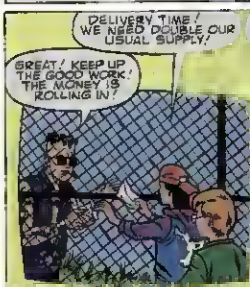
THE COPS ARE  
TOO BUSY  
INVESTIGATING  
THE CRIMES OUR  
CUSTOMERS COMMIT  
TO KEEP TABS ON A  
RESPECTABLE CITIZEN  
LIKE ME!

I'M HERE TO TELL YOU I'M  
INCREASING YOUR SUPPLY!  
FROM NOW ON YOU'VE  
GOT TO SELL MORE!  
GOT IT?

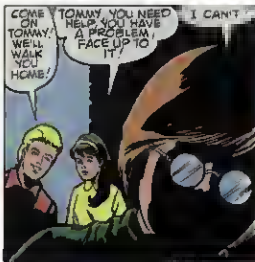
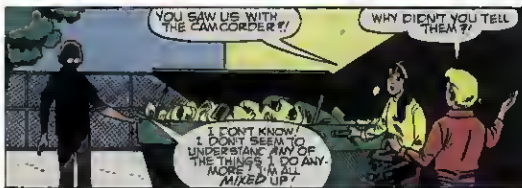
Y-YES, SIR! I WILL!  
NOW I'VE GOTTA SCRAM  
BEFORE WE ATTRACT  
ANY ATTENTION!

THERE HE  
GOES! DID  
YOU GET  
IT, ALEC?

YES, SHANNA!  
THANKS TO THE  
ZOOM LENS  
I GOT IT ALL  
ON TAPE!







OH NO! POLICE! THEY'RE IN FRONT OF MY HOUSE!

TOMMY & TOMMY JONES

THEY'VE COME FOR ME!  
OUT OF MY WAY! I'VE  
GOTTA RUN FOR IT!

NO! DON'T  
WAIT, TOMMY!

I HAVE BAD NEWS FOR YOU,  
TOMMY. YOUR HOUSE WAS BEING  
ROBBED, AND YOUR PARENTS  
CAUGHT THE THIEF AND  
WERE HURT!

H-MUH?

WHAT? MY  
PARENTS? OH NO!  
IS IT SERIOUS?

AN AMBULANCE TOOK THEM  
TO THE HOSPITAL! LUCKILY,  
THEY'RE OKAY! IT COULD  
HAVE BEEN WORSE! THE  
THIEF WAS AN ADDICT  
HIGH ON DRUGS!

SNIFF!

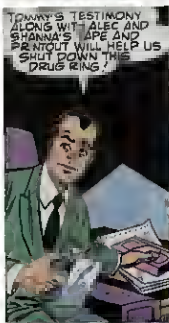
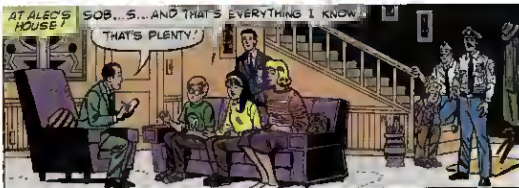
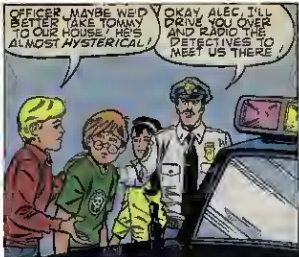
WHA-  
WHAT?

WE GOT THE THIEF. FIRST IN TIME TO NAB!  
THAT'S HIM!

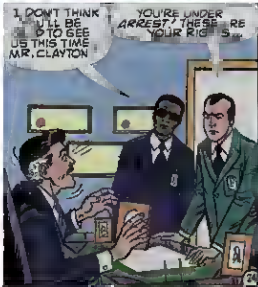
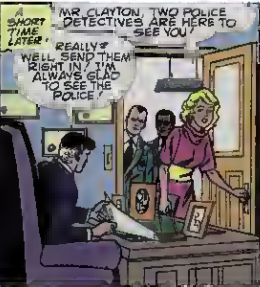
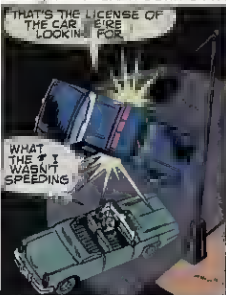
SNIFF!  
HIM? IT'S  
BIG JIM!

YOU KNOW  
HIM?

SOB! I-I  
HELPED TURN  
HIM ON TO  
DRUGS! SOB!



THE POLICE CRACKDOWN ON THE DRUG RING BEGAN IMMEDIATELY!



AND THE ROUND UP CONTINUED! THE NEXT TIME A PLANE LANDED AT THAT ABANDONED AIR STRIP THE PILOT FOUND A WELCOMING COMMITTEE OF POLICE WAITING FOR HIM!



SO YOU SEE MR. AND MRS. JONES, TOMMY HELPED US SHUT DOWN ONE OF THE STATE'S BIGGEST DRUG RINGS!

I DON'T DESERVE ALL OF THE CREDIT, SERGEANT! TAYLOR SHANNA AND ALEC HELPED TOO!



THAT'S TRUE! BUT YOU HAVE REASON TO BE PROUD OF YOURSELF, TOMMY! YOU FACED UP TO YOUR PROBLEM AT LAST!

WE'RE PROUD OF YOU SON! REAL PROUD!

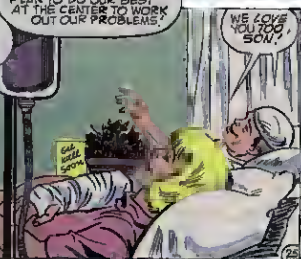
AND WE'LL BE WAITING FOR YOU WHEN YOU GET OUT OF THAT REHABILITATION CENTER!



THANKS, MOM AND DAD, BOBBY AND I BOTH PLAN TO DO OUR BEST AT THE CENTER TO WORK OUT OUR PROBLEMS.



I'LL BE HOME SOON, MOM AND DAD! BYE! I LOVE YOU!

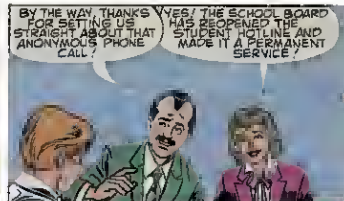


WE LOVE YOU TOO, SON!



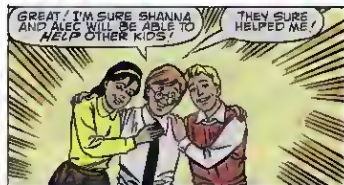
WELL TOMMY, HOW ARE YOUR PARENTS?

THEY'RE FINE, MR. KLINE! AND FROM NOW ON, I'M GOING TO BE FINE TOO... REALLY FINE!



BY THE WAY, THANKS FOR SETTING US STRAIGHT ABOUT THAT ANONYMOUS PHONE CALL!

YES! THE SCHOOL BOARD HAS REOPENED THE STUDENT HOTLINE AND MADE IT A PERMANENT SERVICE!



GREAT! I'M SURE SHANNA AND ALEC WILL BE ABLE TO HELP OTHER KIDS!

THEY SURE HELPED ME!



GOOD-BYE, TOMMY!

AND GOOD LUCK!

GOOD-BYE EVERYONE! THANKS FOR EVERYTHING!



WELL, SHANNA, WE WON A BATTLE, BUT THE WAR ON DRUGS ISN'T OVER YET!

RIGHT, ALEC! IT'LL NEVER BE OVER UNTIL WE ALL LEARN...

TO JUST SAY NO TO DRUGS!!

# STUDENT'S GUIDE TO COMPUTER LANGUAGE

**BACK-UP DISKETTE** A "Safe Copy" made from the original diskette and kept in case of damage or destruction of data on the original diskette.

**BASIC** Beginner's All-purpose Symbolic Instruction Code, a widely-used programming language.

**BINARY** A numbering system using only two digits, 0 and 1.

**BIT** The smallest unit a computer circuit can recognize.

**BOOT UP** To turn on a computer system (including all peripherals) and load an operating system or program.

**BREAK** To stop the execution of a program by pressing the key **(BREAK)** or by typing the word "STOP."

**BYTE** A combination of 8 consecutive binary digits.

**CASSETTE** An information storage medium composed of magnetic tape on a spool enclosed in plastic case.

**COMMAND** A function the computer performs upon your instructions.

**CONTROL** That section of a computer which directs the activity of all other sections.

**CURSOR** A flashing, white box on the screen which marks the location of the next letter or numeral.

**DATA** The information processed by a computer.

**DEFAULT** An action or value taken by a program if you do not specify which is to be used.

**DESKMATE** A multipurpose program designed to make computers easier to use.

**DIRECTORY** A listing of the contents stored on a disk.

**DISK** A magnetic recording device for storage of data.

**EDIT** To change existing information.

**ENTER** The key on a keyboard that is pressed to enter data into the computer.

**K or KILOBYTE** The letter symbol for 1024 bytes.

**LAN—Local Area Network** A way to connect many computers to share information.

**MENU** A list of questions, or prompts, the answers to which determine how the computer will execute an instruction.

**PASSWORD** A file security option of up to 8 alphanumeric characters.

**POWER UP** To turn on the computer system (including all peripheral equipment).

**PROGRAM** The instructions that tell a computer how to process and deliver its answer or information.

**PROMPTS** Questions displayed on the screen which enable you to complete instructions.

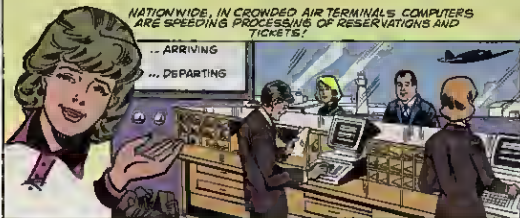
**RAM—Random Access Memory** The section of a computer used to store information. (Data and programs)

**SCRIPSIT** A program used in word-processing.



# THE COMPUTERS !

NATIONWIDE, IN CROWDED AIR TERMINALS COMPUTERS ARE SPEEDING PROCESSING OF RESERVATIONS AND TICKETS!



COMPUTERS LIKE THE TANDY 1000 ARE BEING USED AS TEACHING AIDS TO BUILD SKILLS IN MATH AND SCIENCE ...



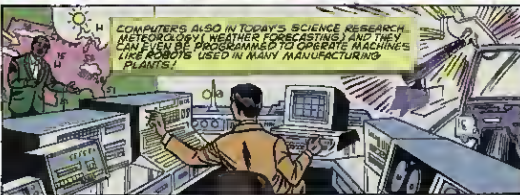
IN REDUCING TIME AND PAPERWORK FOR SMALL BUSINESS OPERATIONS ...



TO ACCESS INFORMATION SERVICES LIKE COMPU-SERVE AN ELECTRONIC ENCYCLOPEDIA AT YOUR FINGERTIPS! GREAT FOR HELPING WITH HOME STUDY ASSIGNMENTS!



COMPUTERS ALSO IN TODAY'S SCIENCE RESEARCH METEOROLOGY ( WEATHER FORECASTING ) AND THEY CAN EVEN BE PROGRAMMED TO OPERATE MACHINES LIKE ROBOTS USED IN MANY MANUFACTURING PLANTS!



# TANDY BITS AND BYTES OF COMPUTER HISTORY



"TODAY, MICROCOMPUTERS (MEANING TINY IN SIZE) ARE RESHAPING OUR WAY OF LIFE! THE COMPUTER AGE IS TRULY HERE, BUT IT REALLY BEGAN ALMOST 200 YEARS AGO!"

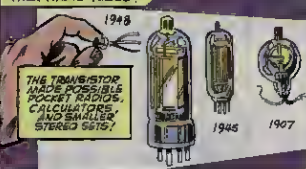
"IN 1801, JOSEPH MARIE JACQUARD, CALLED THE 'FATHER OF THE COMPUTER', WAS HONORED BY THE EXPOSITION IN PARIS FOR A WEAVING LOOM WHICH USED PROGRAMMED PUNCHED CARDS TO CONTROL THE WEAVING OF COMPLEX PATTERNS FROM THREAD!"



YES, THE NOBEL PRIZE IN PHYSICS WAS SPLIT BETWEEN THREE AMERICANS... FOR INVENTING THE TRANSISTOR.



"THEIR RESEARCH WAS DONE AT WORLD FAMOUS BELL TELEPHONE LABS! MANYTIMES SMALLER THEN RADIO TUBES!"



NEXT CAME THE TINY IC (INTEGRATED CIRCUIT) USED IN TODAY'S RADIOS, STEREO HI-FI SETS...





## COMPUTERS AND ASTRONOMY...

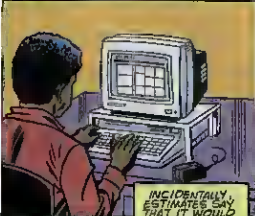
"THE WORLD'S FIRST ALL-ELECTRONIC COMPUTERS WERE MADE IN THE UNITED STATES AT THE END OF WORLD WAR II. THESE COMPUTERS CONTAINED THOUSANDS OF VACUUM (RADIO) TUBES, RESISTORS, CAPACITORS AND SWITCHES--"

"THESE SAME CALCULATIONS WERE REPORTEDLY PERFORMED BY A TRS-80 MODEL I 1979 DESK-TOP COMPUTER AND PRINTER IN LESS THAN 11 HOURS!"



"THE ASTRONOMICAL CALCULATIONS MADE BY THE 1979 MODEL 3 COULD BE PERFORMED EVEN FASTER BY TODAY'S TANDY 1000 MICROCOMPUTER... RECOGNIZED FOR ITS POWER AND STORAGE CAPACITY IN BUSINESS AND EDUCATIONAL USE."

"-- AND REQUIRED A ROOM-SIZE SPACE! THEY USHERED IN THE COMPUTER AGE!"



INCIDENTALLY, ESTIMATES SAY THAT IT WOULD HAVE TAKEN ONE PERSON ABOUT 60 YEARS TO DO THE JOB-- WITHOUT THE HELP OF A COMPUTER!

IN THE LATE 1940'S, THE SSEC (SELECTIVE SEQUENCE ELECTRONIC CALCULATOR) WAS USED BY PIONEERING ASTRONOMER WALTER J. ECKERT AND ASSOCIATES--

TO COMPUTE A NEW EPHEMERIS (CELESTIAL ALMANAC) FOR THE OUTER PLANETS JUPITER THROUGH PLUTO! IT REPORTEDLY TOOK 120 HOURS TO PERFORM ALL OF THE CALCULATIONS! \*



"THE HISTORY OF COMPUTERS REALLY BEGAN COUNTLESS CENTURIES AGO BECAUSE OUR ANCESTORS HAD A NATURAL CURIOSITY ABOUT THINGS / EACH GENERATION EXPLORED, OBSERVED, DISCOVERED, INVENTED AND PASSED ALONG TO THE NEXT GENERATION THEIR CONTRIBUTION TO THE BODY OF KNOWLEDGE WE CALL SCIENCE... AND TO A BETTER WAY OF LIFE WE CALL FREEDOM."

"IT IS MANKIND'S NATURE TO LOOK BEYOND THE HORIZON...TO EXPLORE NEW FRONTIERS!"

THAT'S WHY PILGRIMS CAME TO AMERICA IN 1620... SEARCHING FOR RELIGIOUS FREEDOM AND THE RIGHT TO GOVERNMENT BY THE PEOPLE

THAT'S WHY IMMIGRANTS AND THEIR DESCENDANTS JOINED HANDS TO BUILD AMERICA...A NATION FOUNDED ON THE RIGHT TO INDIVIDUAL LIBERTY AND THE OPPORTUNITY FOR ACHIEVEMENT!

THE GOLDEN KEYS THAT BROUGHT AMERICA FROM A "DEVELOPING NATION TO A WORLD LEADER IN AGRICULTURE, SCIENCE AND BUSINESS..."

"THE GOLDEN KEYS..."

THAT OPENED THE DOORS FOR THE SCIENCE EXPLORERS OF THE UNITED STATES OF AMERICA... PEOPLE LIKE:


NIKOLA TESLA, SAMUEL MORSE, ALEXANDER BELL, THOMAS EDISON, JOSEPH HENRY, BENJAMIN FRANKLIN, ROYAL HOUSE, EDWIN ARMSTRONG, JOSEPH TYKOCINER, LEE DEFOREST, AND THE INVENTORS OF THE TRANSISTOR -- JOHN BARDEEN, WALTER BRATTAIN, AND WILLIAM SHOCKLEY; AND MANY OTHER GREAT

**SCIENCE EXPLORERS!**

...DEDICATED PEOPLE WHOSE YEARS OF STUDY AND COUNTLESS HOURS OF RESEARCH BROUGHT US ALL THESE GREAT INVENTIONS DEVELOPED WITHIN THE PAST CENTURY!



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STEREO HI-FI • COLOR TELEVISION • POCKET CALCULATORS  
VIDEO CASSETTE RECORDERS • POWERFUL DESK-SIZE  
COMPUTERS



COMMUNICATION SATELLITES  
MICROWAVE OVENS FOR  
COOKING • ELECTRONIC  
CONTROL • GUIDANCE  
SYSTEMS FOR JETS,  
THE SHUTTLE  
SPACECRAFT!

REMEMBER THE GOLDEN  
KEYS OPEN ONLY THE DOOR  
TO ACHIEVEMENT, REMEMBER  
ALSO, ACHIEVEMENT IS  
NOT A GIFT...

IT'S UP  
TO YOU  
TO DO IT  
YOURSELF!

THAT'S WHY YOU MUST  
STUDY HARD... LEARN ALL  
YOU CAN ABOUT MATH,  
PHYSICS, ELECTRICITY!

...CHEMISTRY AND OTHER  
SCIENCES... SO THAT YOU  
CAN GAIN THE KNOWLEDGE  
IT TAKES TO BE A  
SCIENCE EXPLORER!  
IT'S NOT EASY BUT  
YOU CAN DO IT!

YEEAAAY!  
WE CAN  
DO IT!

IT WILL BE YOUR TURN TO MAKE A CONTRIBUTION TO SCIENTIFIC KNOWLEDGE THAT CONTINUES  
PROGRESS WITHOUT ENDANGERING OUR HOME BASE - SPACE SHIP EARTH - A CONTRIBUTION  
THAT ALSO BENEFITS PEOPLE OF ALL NATIONS!

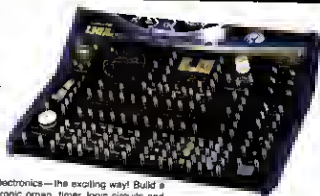


# LEARNING CAN BE FUN WITH THESE GREAT PROJECT KITS!

## 130 Project Lab Kit

- Start a Great Hobby In Electronics
- No Prior Knowledge Needed to Assemble

**29<sup>95</sup>**



Everything you need to discover electronics—the exciting way! Build a radio, AM broadcast station, electronic organ, timer, logic circuits and dozens more. With built-in speaker, 7-segment LED display, two integrated circuits and rotary controls. Safe, simple coil-spring connections. Includes fully illustrated step-by-step manual. Requires 8 "AA" batteries. 28-259



### AM/FM Project Kit

**12<sup>95</sup>**

Hear local AM and FM radio stations. Preassembled tuner. Coil-spring assembly. Requires 2 "AA" batteries. 28-175

### AM and Shortwave Radio Kit

**12<sup>95</sup>**

Hear BBC, Voice of America, WWV time, much more! Covers 3 bands: standard AM, 5.5-10 and 9-16 MHz shortwave. With earphone. Requires 2 "AA" cells. 28-176



**Tune in the World**



### Perfect "First" Radio Kit

**5<sup>95</sup>**

**"Plays Forever"**

No tubes or transistors, no batteries or AC. Instead, a diode converts radio frequencies to audio. Covers 550 to 1600 kHz AM. Earphone, instructions. 28-219



### AM/VHF Project Kit

**12<sup>95</sup>**

Listen to police, aviation and weather bands, plus the 550-1600 kHz AM band. Preassembled tuner 108-135/148-174 MHz. Coil-spring assembly. Requires 9V battery. 28-163

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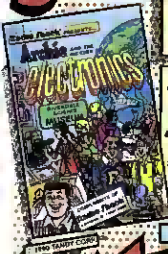
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